



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/070,705	03/12/2002	Yasuyuki Tamaki	220334US2PCT	7591

22850 7590 11/03/2003

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.  
1940 DUKE STREET  
ALEXANDRIA, VA 22314

EXAMINER:

DUONG, THOI V

ART UNIT PAPER NUMBER

2871

DATE MAILED: 11/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/070,705

Applicant(s)

TAMAKI ET AL.

Examiner

Thoi V Duong

Art Unit

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any extended patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 12 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 9-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 9-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
 If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 0502. 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. This office action is in response to the Preliminary Amendment filed March 12, 2002.

Accordingly, claims 1-8 were cancelled and new claims 9-15 were added.

Currently, claims 9-15 are pending in this application.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 9, 10 and 12-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kubo et al. (USPN 6,456,279 B1).

As shown in Figs. 7, 19 and 20, Kubo et al. discloses a liquid crystal display 46, comprising:

a liquid crystal panel 1;

a liquid crystal panel holding member 19 holding said liquid crystal panel therein;  
and

a light unit including light source means 3 and an optical guide plate 40B  
directing light beams emitted from said light source means to said liquid crystal panel  
(Fig. 7); wherein

said light unit has a frame member 18 holding said light source means and the  
optical guide plate (Fig. 20a),

between said liquid crystal panel holding member 19 and said frame member  
18, engaging means 21 (claws) engaged with each other are provided, respectively  
(Figs. 19b and 19d, and col. 24, lines 37-41); and

said optical guide plate 40B is arranged on a display surface side of said liquid  
crystal panel so that light beams emitted from said light source means are directed to  
said liquid crystal panel (Fig. 7),

wherein said frame member 18 has a surrounding frame area 20 extending on a  
surface side of said optical guide plate, to define a display screen of said liquid crystal  
panel (Fig. 19a and col. 24, lines 29-33);

wherein said frame member 18 has a shield frame area covering said electronic  
component (col. 24, lines 29-33);

wherein the liquid crystal display has ground potential setting means GND for  
setting said frame member to a ground potential (Fig. 22).

wherein said frame member includes said ground potential setting means GND  
(Fig. 22).

wherein said frame member 18 has a holding frame for holding a PCB 33 and an IC chip 32 (Fig. 20d).

wherein between said liquid crystal panel holding member and said frame member, positioning means 22 (hooks) are provided for relative positioning, respectively (Fig. 19c and col. 24, lines 37-41).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kubo et al. (USPN 6,456,279 B1) as applied to claims 9, 10 and 12-15 in view of Lee et al. (USPN 6,556,268 B1).

Kubo et al. discloses a liquid crystal display that is basically the same as that recited in claim 11 except for an electronic component to be provided on a substrate constituting said liquid crystal panel 1. As shown in Figs. 4A-4D, Lee et al discloses a liquid crystal display panel 70 comprising a PCB 80 and an IC chip 100 provided on an exposed edge portion 78 of a lower substrate 74 so as to obtain a compact LCD package that does not require separate planar areas for mounting a driver chip and a PCB (col. 3, lines 34-37). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the liquid crystal display of Kubo

et al. with the teaching of Lee et al. by forming an electronic component on a substrate constituting liquid crystal panel to obtain a compact LCD package.

**Conclusion**


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (703) 308-3171. The examiner can normally be reached on Monday-Friday from 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (703) 305-3492.

Thoi Duong



10/20/2003



T. Chaudhry  
Primary Examiner